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(54) POWER SUPPLY PROTECTIVE CIRCUIT FOR VEHICLE

(57) Abstract:

PURPOSE: To prevent deadlock at the time of starting/traveling by connecting a first inverter between a battery and an electric rotating machine being driven through an internal-combustion engine and further connecting a second inverter between the battery and a load and stopping the operation of the second inverter when the battery voltage drops below a predetermined level.

CONSTITUTION: An AC three-phase electric rotating machine 3 being driven through an internal-combustion engine is connected with a battery 8 through a first inverter circuit 61, an electric brake circuit 64, a smoothing capacitor 63 and a chopper circuit 62. Furthermore, the battery 8 is connected through a controller 20 with a second chopper circuit 91, a smoothing capacitor 92 and a second inverter circuit 93 in order to drive a three-phase motor 15. When a voltmeter buit in the controller 20 detects the terminal voltage of the battery 8 lower than a predetermined level, a signal is delivered in order to stop the operation of the second chopper circuit 91 and the second inverter circuit 93. Consequently, the battery 8 is protected against overdischarge resulting in prevension of deadlock at the time of starting/traveling.